

10	30	50
CATGGGTGGGGGTGGGGGCGCTGCTGGATTCTGCTCTGGTGGAGGGGAACTTGTGAGG		
70	90	110
GGCTGGTAAGCGCCCCCTCCGAAGCCTGGTGTGTGCGCGGGGGGAAGGAAGTTAGTTTCC		
130	150	170
TCTCCACCCATGGGCACCCCTTCTGCCCCGGGGCCTGGGAAGTGGGCTGCTCTGTGGGCAA		
190	210	230
ATGCTGGGGCCTCTGAAATGGAGGAGACGCAGCAGGGAGAGGCCCCACGTGGGCAGCTGC		
<u>M E E T Q Q G E A P R G Q L R</u>		
250	270	290
GCGGAGAGTCAGCAGCACCTGTCCCCAGGCGCTCCTCCTGGTGCTGCTGGGGGCCCCGGG		
<u>G E S A A P V P Q A L L L V L L G A R A</u>		
310	330	350
CCCAGGGCGGCACTCGTAGCCCCAGGTGTGACTGTGCCGGTGACTTCCACAAGAAGATTG		
Q G G T R S P R C D C A G D F H K K I G		
370	390	410
GTCTGTTTTGTTGCAGAGGCTGCCCAGCGGGGCACTACCTGAAGGCCCTTGCACGGAGC		
L F C C R G C P A G H Y L K A P C T E P		
430	450	470
CCTGCGGCAACTCCACCTGCCTTGTGTGTCCCCAAGACACCTTCTTGGCCTGGGAGAACC		
C G N S T C L V C P Q D T F L A W E N H		
490	510	530
ACCATAATTCTGAATGTGCCCCTGCCAGGCCTGTGATGAGCAGGCCTCCCAGGTGGCGC		
H N S E C A R C Q A C D E Q A S Q V A L		
550	570	590
TGGAGAACTGTTTCAGCAGTGGCCGACACCCGCTGTGGCTGTAAGCCAGGCTGGTTTGTGG		
E N C S A V A D T R C G C K P G W F V E		
610	630	650
AGTGCCAGGTCAGCCAATGTGTCAGCAGTTCACCCTTCTACTGCCAACCATGCCTAGACT		
C Q V S Q C V S S S P F Y C Q P C L D C		

FIG.1A

670	690	710
GCGGGGCCCTGCACCGCCACACACGGCTACTCTGTTCCCGCAGAGATACTGACTGTGGGA		
G A L H R H T R L L C S R R D T D C G T		
730	750	770
CCTGCCTGCCTGGCTTCTATGAACATGGCGATGGCTGCGTGTCTGCCCCACGAGCACCC		
C L P G F Y E H G D G C V S C P T S T L		
790	810	830
TGGGGAGCTGTCCAGAGCGCTGTGCCGCTGTCTGTGGCTGGAGGCAGATGTTCTGGGTCC		
G S C P E R C A A V C G W R Q M F <u>W V Q</u>		
850	870	890
AGGTGCTCCTGGCTGGCCTTGTGGTCCCCCTCCTGCTTGGGGCCACCCTGACCTACACAT		
<u>V L L A G L V V P L L L G A T L T Y T Y</u>		
910	930	950
ACCGCCACTGCTGGCCTCACAAGCCCCTGGTTACTGCAGATGAAGCTGGGATGGAGGCTC		
R H C W P H K P L V T A D E A G M E A L		
970	990	1010
TGACCCACACACCGGCCACCCATCTGTACCCCTTGGACAGCGCCACACCCTTCTAGCAC		
T P P P A T H L S P L D S A H T L L A P		
1030	1050	1070
CTCCTGACAGCAGTGAGAAGATCTGCACCGTCCAGTTGGTGGGTAACAGCTGGACCCCTG		
P D S S E K I C T V Q L V G N S W T P G		
1090	1110	1130
GCTACCCCGAGACCCAGGAGGCGCTCTGCCCAGGTGACATGGTCCTGGGACCAGTTGC		
Y P E T Q E A L C P Q V T W S W D Q L P		
1150	1170	1190
CCAGCAGAGCTCTTGGCCCCGCTGCTGCGCCACACTCTCGCCAGAGTCCCCAGCCGGCT		
S R A L G P A A A P T L S P E S P A G S		
1210	1230	1250
CGCCAGCCATGATGCTGCAGCCGGGCGCAGCTCTACGACGTGATGGACGCGGTCCCAG		
P A M M L Q P G P Q L Y D V M D A <u>V P A</u>		
1270	1290	1310
CGCGGCGCTGGAAGGAGTTCGTGCGCACGCTGGGGCTGCGCGAGGCAGAGATCGAAGCCG		
<u>R R W K E F V R T L G L R E A E I E A V</u>		

FIG.1B

1330	1350	1370
TGGAGGTGGAGATCGGCCGCTTCCGAGACCAGCAGTACGAGATGCTCAAGCGCTGGCGCC		
<u>E V E I G R F R D Q Q Y E M L K R W R Q</u>		
1390	1410	1430
AGCAGCAGCCCGCGGGCCTCGGAGCCGTTTACGCGGCCCTGGAGCGCATGGGGCTGGACG		
<u>Q Q P A G L G A V Y A A L E R M G L D G</u>		
1450	1470	1490
GCTGCGTGGAAGACTTGCGCAGCCGCTGCAGCGCGGCCCGTGACACGGCGCCCACTTGC		
<u>C V E D L R S R L Q R G P *</u>		
1510	1530	1550
CACCTAGGCGCTCTGGTGGCCCTTGCGAAGCCCTAAGTACGGTTACTTATGCGTGTAGA		
1570	1590	1610
CATTTTATGTCACTTATTAAGCCGCTGGCACGGCCCTGCGTAGCAGCACCAGCCGGCCCC		
1630	1650	1670
ACCCCTGCTCGCCCCTATCGCTCCAGCCAAGGCGAAGAAGCACGAACGAATGTCGAGAGG		
1690	1710	1730
GGGTGAAGACATTTCTCAACTTCTCGGCCGGAGTTTGGCTGAGATCGCGGTATTAAATCT		
1750	1770	
GTGAAAGAAAACAAAACAAAACAAAAAAAAAAAAAAAAAAAAA		

FIG.1C

1    ATGGAGCAGC GGCCGCGGGG CTGCGCGGCG GTGGCGGCGG CGCTCCTCCT GGTGCTGCTG  
      M E Q R   P R G   C A A   V A A A   L L L   V L L

---

61    GGGGCCCCGG CCCAGGCGG CACTCGTAGC CCCAGGTGTG ACTGTGCCGG TGAATTCCAC  
      G A R A   Q G G   T R S   P R C D   C A G   D F H

121   AAGAAGATTG GTCTGTTTTG TTGCAGAGGC TGCCCAGCGG GGCACCTACCT GAAGGCCCCCT  
      K K I G   L F C   C R G   C P A G   H Y L   K A P

181   TGCACGGAGC CCTGCGGCAA CTCCACCTGC CTTGTGTGTC CCCAAGACAC CTTCTTGGCC  
      C T E P   C G N   S T C   L V C P   Q D T   F L A

241   TGGGAGAACC ACCATAATTC TGAATGTGCC CGCTGCCAGG CCTGTGATGA GCAGGCCTCC  
      W E N H   H N S   E C A   R C Q A   C D E   Q A S

301   CAGGTGGCGC TGGAGAACTG TTCAGCAGTG GCCGACACCC GCTGTGGCTG TAAGCCAGGC  
      Q V A L   E N C   S A V   A D T R   C G C   K P G

361   TGGTTTGTGG AGTGCCAGGT CAGCCAATGT GTCAGCAGTT CACCCTTCTA CTGCCAACCA  
      W F V E   C Q V   S Q C   V S S S   P F Y   C Q P

421   TGCCTAGACT GCGGGGCCCT GCACCGCCAC ACACGGCTAC TCTGTTCCCG CAGAGATACT  
      C L D C   G A L   H R H   T R L L   C S R   R D T

481   GACTGTGGGA CCTGCCTGCC TGGCTTCTAT GAACATGGCG ATGGCTGCGT GTCCTGCCCC  
      D C G T   C L P   G F Y   E H G D   G C V   S C P

541   ACGAGCACCC TGGGGAGCTG TCCAGAGCGC TGTGCCGCTG TCTGTGGCTG GAGGCAGATG  
      T S T L   G S C   P E R   C A A V   C G W   R Q M

601   TTCTGGGTCC AGGTGCTCCT GGCTGGCCTT GTGGTCCCC TCCTGCTTGG GGCCACCCTG  
      F W V Q   V L L   A G L   V V P L   L L G   A T L

661   ACCTACACAT ACCGCCACTG CTGGCCTCAC AAGCCCCTGG TTAAGCTGGA TGAAGCTGGG  
      T Y T Y   R H C   W P H   K P L V   T A D   E A G

721   ATGGAGGCTC TGACCCACCC ACCGGCCACC CATCTGTCAC CCTTGGACAG CGCCACACCC  
      M E A L   T P P   P A T   H L S P   L D S   A H T

781   CTTCTAGCAC CTCCTGACAG CAGTGAGAAG ATCTGCACCG TCCAGTTGGT GGGTAACAGC  
      L L A P   P D S   S E K   I C T V   Q L V   G N S

FIG.2A

841 TGGACCCCTG GCTACCCCGA GACCCAGGAG GCGCTCTGCC CGCAGGTGAC ATGGTCCTGG  
 W T P G Y P E T Q E A L C P Q V T W S W  
 901 GACCA GTTGC CCAGCAGAGC TCTTGGCCCC GCTGCTGCGC CCACACTCTC GCCAGAGTCC  
 D Q L P S R A L G P A A A P T L S P E S  
 961 CCAGCCGGCT CGCCAGCCAT GATGCTGCAG CCGGGCCCCG AGCTCTACGA CGTGATGGAC  
 P A G S P A M M L Q P G P Q L Y D V M D  
 1021 GCGGTCCCAG CGCGGCGCTG GAAGGAGTTC GTGCCGACGC TGGGGCTGCG CGAGGCAGAG  
 A V P A R R W K E F V R T L G L R E A E  
 1081 ATCGAAGCCG TGGAGGTGGA GATCGGCCGC TTCCGAGACC AGCAGTACGA GATGCTCAAG  
 I E A V E V E I G R F R D Q Q Y E M L K  
 1141 CGCTGGCGCC AGCAGCAGCC CGCGGGCCTC GGAGCCGTTT ACGCGGCCCT GGAGCGCATG  
 R W R Q Q Q P A G L G A V Y A A L E R M  
 1201 GGGCTGGACG GCTGCGTGGA AGACTTGCGC AGCCGCCTGC AGCGCGGCCC GTGA  
 G L D G C V E D L R S R L Q R G P

FIG.2B

FIG. 3A

FIG. 3A

Consensus #1	. . . . . T . C . C . . . . .	
DDCR	S A V A D T R C G C K P G W F V E C - - - Q V S Q C V S S S	145
TNFR1	T V D R D T V C G C R K N Q Y R H Y W S E N L F Q C - - -	144
FAS	I R T Q N I I K C R C K P N F F Q N - - - - -	137
Consensus #1	. . . . . C . . . . .	
DDCR	P F Y C Q Q P C L D C G A L H R H T R L L C S R R D T D C G T	175
TNFR1	- F N C S L C L N - G T V H - - - L S C Q E K Q N T V C T	167
FAS	- - - S T V C E H C D P - - - - - C T K	148
Consensus #1	C . . . . . C . . . . .	
DDCR	C L P G F Y E H G D G C V S C P T S T L G - S C P E R C - -	203
TNFR1	C H A G F F L R E N E C V S C S N C K K S L E C T K L C L P	197
FAS	C E H G I I - - - K E C - - - - - T L T S N T K C - -	166
Consensus #1	. . . . . L	
DDCR	- - - - - A A V C G W R Q M F W V Q V L L A G L V V P L	225
TNFR1	Q I E N V K G T E D S G T T V L L P L V I F F G L C L L S L	227
FAS	- - - - - K E E G S R S N L G W L C L L - - L P I P L	186

FIG.3B

Consensus #1					
DDCR	L L G G T L D L H I P P L L A H K P L V T A D E A G M E A L	255			
TNFR1	L F I G - L L M Y R Y Q R W K S K L Y S I V C G K S T P E K E	256			
FAS	I V - - - - - W V K R K E V - - - Q K T C R K H R	203			
Consensus #1					
DDCR	N P P P G T H L S P L D S A H T L L A P P D S S E K I C T V	285			
TNFR1	G E L E G T T T K P L A P N P S F S P T P G F T P T L G F S	286			
FAS	K E N Q G S H E S P - - - - -	214			
Consensus #1					
DDCR	Q L V G N S W T P G Y P E T Q E A L C P Q V T W S W D Q L -	315			
TNFR1	P V P S S T F T S S S T Y T P G D - C P N F A A P R R E V A	315			
FAS	- - - - -	214			
Consensus #1					
DDCR	- P S R A L G P A A A P T L S P E S P A G S - - - - -	336			
TNFR1	P P Y Q G A D P I L A T A L A S D P I P N P L Q K W E D S A	345			
FAS	- - - - - T L N P E T V A I N L S - - - - -	226			

FIG. 3C



Consensus #1	.....K.FV	
DDCR	---PAMMLQPGPQLYDVMDAVPPARRWKEFV	362
TNFR1	HKPSLTDDPATLYAVVENVPPLRWKEFV	375
FAS	-----DVDSLKYITTIAGVMTLSQVKGFV	249
Consensus #1	R..G.....I.....L.	
DDCR	RTLGLREAEIEAVEVEIGR-FRQQYEMLK	391
TNFR1	RRLLGLSDHEIDRLQLQNGRCCLREAAQYSMLA	405
FAS	RKNGVNEAKIIDIEIKNDNVQDTAEQKVKLLR	279
Consensus #1	W.....A.....L.....L.....E	
DDCR	RWRQQQP--AGLGA VYAALERMGLDGCVE	418
TNFR1	TWRRTTPRREATLELLGRVLLRDMDLGCL	435
FAS	NWHQLHGKKEA-YDTLLIKDLLCTLA	308
Consensus #1	.....	
DDCR	DL-----RSLQRCGP	428
TNFR1	DI EEAL-----CGPAALLPPAPSLR	455
FAS	KIQTIILKDIITSDSENSNFRNEIQSLV	335

FIG.3D

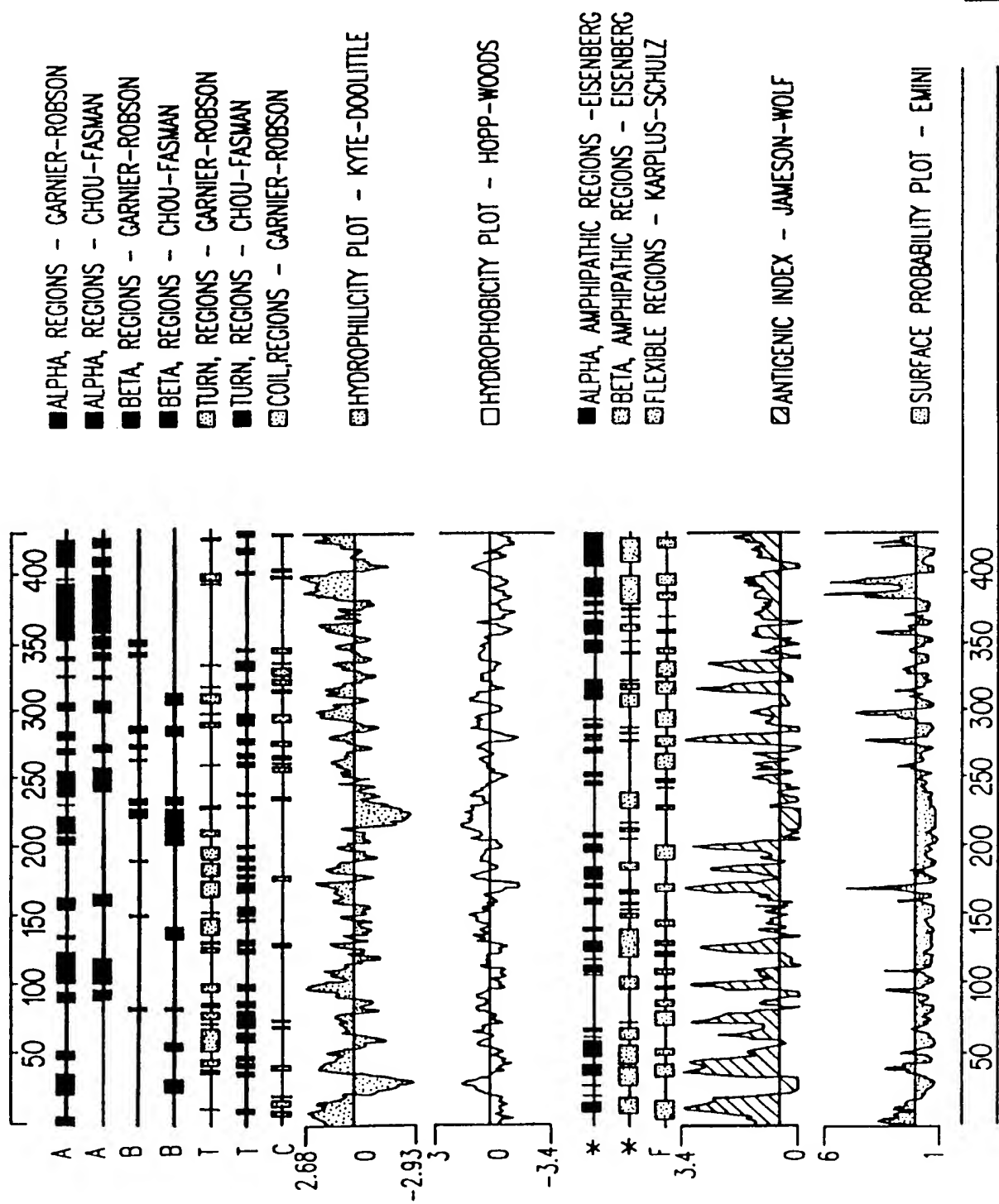


FIG. 4